## What is claimed is:

1. A valve positioning system, comprising:

a positioner housing;

a non-contact position receiver located at least partially internal to the housing; and

a non-contact position transmitter mounted to a valve actuator stem for signaling the position of the actuator to the receiver, the actuator stem being coupled externally to the positioner housing and operable for moving a valve between a first position and a second position.

- 2. The valve positioning system of claim 1, further includes a slide assembly for slidingly attaching the actuator stem to the positioner housing.
- 3. The valve positioning system of claim 2, wherein the slide assembly further includes an attaching member to connect the actuator stem to the slide assembly.
- 4. The valve positioning system of claim 1, wherein the transmitter is connected to the slide assembly.
- 5. The valve positioning system of claim 4, wherein the positioner housing further includes a groove for the transmitter to reciprocatingly slide therein.
- 6. The valve positioning system of claim 1, wherein the receiver is adapted to monitor the signal generated by the transmitter to determine the relative position of the actuator stem.
- 7. The valve positioning system of claim 1, wherein the receiver includes a Hall effect sensor.
- 8. The valve positioning system of claim 1, wherein the transmitter includes a magnet array.
- 9. The valve positioning system of claim 1, wherein the system includes a giant magnetoresistive device.

- 10. The valve positioning system of claim 1, wherein the system includes a potentiometer.
- 11. The valve positioning system of claim 1, wherein the transmitter includes a magnet holder.
- 12. The valve positioning system of claim 11, wherein the magnet holder includes a plurality of magnets.
  - 13. A valve positioning system, comprising:

a positioner housing having a groove formed in a side thereof;

an actuator stem slidably connected to the positioner housing;

a position receiver located internal to the housing and adapted to determine the relative position of the actuator stem with respect to the housing; and

a position transmitter coupled to the actuator stem and located at least partially external to the housing, the transmitter operable for sliding in the groove to signal a position to the receiver.

- 14. The valve positioning system of claim 13, further including a sliding assembly coupled between the housing and the actuator stem.
- 15. The valve positioning system of claim 14, wherein the sliding assembly further includes first and second elements for clamping around the actuator stem.
- 16. The valve positioning system of claim 13, wherein the receiver is a non-contact sensor.
- 17. The valve positioning system of claim 16, wherein the non-contact sensor is a Hall effect sensor.
- 18. The valve positioning system of claim 13, wherein the transmitter includes a magnet array.
- 19. The valve positioning system of claim 13, wherein the transmitter includes a giant magnetoresistive element.

- 20. The valve positioning system of claim 13, wherein the transmitter includes a potentiometer.
- 21. The valve positioning system of claim 13, wherein the transmitter includes a magnet holder.
- 22. The valve positioning system of claim 21, wherein the magnet holder includes a plurality of magnets.
- 23. A method for determining a position of an actuation device, comprising the steps of:

coupling a non-contact transmitter to the actuation device; providing a non-contact receiver in a protective housing; transmitting a position signal from the transmitter; receiving the signal with the receiver; sending the position signal to a controller;

determining the position of the device relative to a commanded position of the controller; and

moving the actuation device to the commanded position.